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➢ **TABLE OF STANDARD PROPERTIES OF USE AND MEASUREMENT**

The properties defined in the table below, are set up according to the technical conditions of use and measurement. These properties are warranted within their variation range and in compliance with the standard technical conditions of use.

References	Standard technical conditions	Unit	Nominal values	Min. values	Max. values
Notes			-		
Function			*FPGA Real-time controller*		
FPGA capability		*gates*	*1 millions 4 slots*		
FPGA capability (MC option)		*gates*	*4 millions 4 slots*		
Supply voltage		*V*	*-15 / 15 / 5*		
A/D converters			*4 up to 32*		
A/D Resolution / quantization	*other options on request*		*16 bit @ +/-10V*		
D/A converters			*4*		
D/A Resolution / quantization	*other options on request*		*16 bit @ +/-10V*		
Sampling rate		*µs*	*40*		
Computer interface	*ethernet link in standard*		*Ethernet link 10-100 Mb/s*		
Front interface			*SCSI, RJ145 connectors*		
Rear interface			*DIN 41612 Forme C 64/96*		
Weight		*kg*	*1.3*		
Dimensions		*mm*	*26F wide, 4H high*		

Bandwidth settled according to your specifications; by default 1 Hz.

➢ **PROPERTIES STANDARD TECHNICAL CONDITIONS OF USE AND MEASUREMENT**

Quasistatic excitation	: AC voltage between –20 and 150 V at 1 Hz
Environment	: Ambient temperature (15-25°C) and dry air (Humidity < 50 % rH)
Standard main supply	: Main according to directive HD472; could be adapted to 110 VAC on request
Noise measurement conditions	: Excitation 0.5 Vrms ; reading bandwidth 1 Hz to 1 kHz
Standard load	: Actuator APA from series S or SM : 1.55 µF (load test may be different)

The standard version of the UC75 is delivered with a free standard version (latest version downloadable on the web site) of a (Graphical User Interface) GUI software HPDM75. This GUI is an Labview® Real Time executable (the Labview® from National Instruments is not transferred) and provides the following functionalities:

- remote control of the drive electronic,
- change of the parameters of the controller PID + Notch,
- order selection between internal (e.g. generated by the GUI), external (analogue order) or triggered by an external signal,
- capability to apply a user's defined preshaper to smooth the actuator's response,
- capability to visualize asynchronously the command, the sensor response.

Any upgrade of a GUI of possible extended functionalities is possible under request.

Any technical conditions of use, different from those defined above, can lead to temporary or definitive alterations of properties. Thank you to contact CEDRAT TECHNOLOGIES before using actuators under non standard technical conditions.

➢ **FACTORY TESTS CARRIED OUT**
☒ Test 1: Gain and linearity in closed loop
☒ Test 2: Step response in closed loop (sensor output voltage versus command voltage

➢ **EXTRA FACTORY TESTS**
☐ Test 3: Bode diagram

➢ **AVAILABLE OPTIONS**
☒ [MC] Multi-channel